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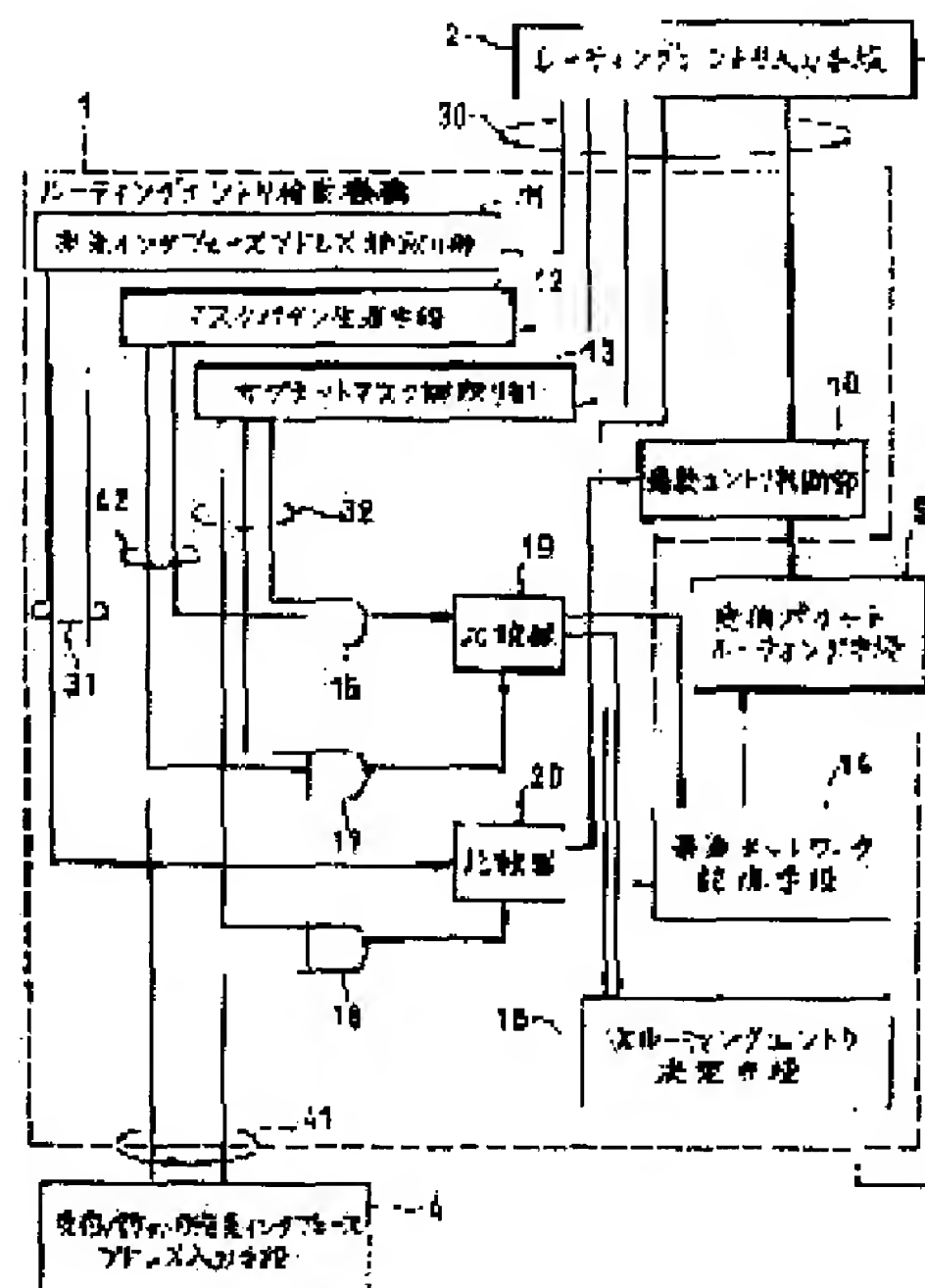| (51)Int.Cl.	
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(54) ROUTING ENTRY RETRIEVAL SYSTEM, RETRIEVAL METHOD THEREFOR, AND STORAGE MEDIUM RECORDED WITH CONTROL PROGRAM THEREFOR

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a routing entry retrieval system suitable for an address system where addresses have the number of hierarchies different or every network and different addresses have the number of digits different in each hierarchy.

SOLUTION: A destination interface address of an input packet read from a destination interface address input means 4 for a received packet is collated with a destination interface address of each routing entry from a routing entry input means 2 read by a destination interface address read section 11 by using three-input AND circuits 16, 17, a two-input AND circuit 18 and comparators 19, 20. In this case, the collation is conducted for one digit each or pluralities of number of digits by using a mask pattern generated by a mask pattern generating means 12 and a sub net mask possessed by each routing entry read by a sub-net mask read section 13 independently of the hierarchy of a communication network.

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